

Work Order ID 110289

December-17-13 9:20:13 AM

110289

Page 1

Item ID: D044-713-014 Accept ***N900040100*** Setup Start ***NS1***
 Revision ID: Stop ***NS2***
 Item Name: Bubble Window RHvne 100 Kias
 Start Date: 12/17/13 Start Qty: 1.00 ***1*** Cust Item ID:
 Required Date: 12/17/13 Req'd Qty: 1.00 ***1*** Customer:
 Reference:

Approvals: Process Plan: MLJ Date: 12-12-18 Tooling: _____ Date: _____ Run Start ***NR1***
 QC: _____ Date: _____ SPC (Y/N): _____ Date: _____ Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
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Draw Nbr	Revision Nbr	
DSI 9329	B	
IIN D044-713	A	

MLJ 14-01-29

100 DOCUMENT CONTROL 0.00
100
 DC Memo 0.00
 Document Control Photocopy bluefiles and create labels per PPP D044-713-014 & DSI 9329
 CHG003

DAS 6 14-1-31 9-89

110 Pick Kit 0.00
110
 Packaging Memo 0.00
 Packaging

DAS 33 14-01-29 9-89

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework <input type="checkbox"/> Scrap <input type="checkbox"/> Use-as-is <input type="checkbox"/> Suspected Unapproved <input type="checkbox"/>	AGAINST DEPARTMENT/PROCESS <table style="width: 100%;"> <tr> <td>Skid-tube <input type="checkbox"/></td> <td>Crosstube <input type="checkbox"/></td> <td>Water Jet <input type="checkbox"/></td> <td>Engineering <input type="checkbox"/></td> </tr> <tr> <td>Machining <input type="checkbox"/></td> <td>Small Fab <input type="checkbox"/></td> <td>Prod. Eng. Coord. <input type="checkbox"/></td> <td>Quality <input type="checkbox"/></td> </tr> <tr> <td>Thermoforming <input type="checkbox"/></td> <td>Finishing <input type="checkbox"/></td> <td>Rec/Store/Packaging <input type="checkbox"/></td> <td>Other <input type="checkbox"/></td> </tr> <tr> <td>Large Fab <input type="checkbox"/></td> <td>Composite <input type="checkbox"/></td> <td>Supplier <input type="checkbox"/></td> <td></td> </tr> </table>	Skid-tube <input type="checkbox"/>	Crosstube <input type="checkbox"/>	Water Jet <input type="checkbox"/>	Engineering <input type="checkbox"/>	Machining <input type="checkbox"/>	Small Fab <input type="checkbox"/>	Prod. Eng. Coord. <input type="checkbox"/>	Quality <input type="checkbox"/>	Thermoforming <input type="checkbox"/>	Finishing <input type="checkbox"/>	Rec/Store/Packaging <input type="checkbox"/>	Other <input type="checkbox"/>	Large Fab <input type="checkbox"/>	Composite <input type="checkbox"/>	Supplier <input type="checkbox"/>	
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Machining <input type="checkbox"/>	Small Fab <input type="checkbox"/>	Prod. Eng. Coord. <input type="checkbox"/>	Quality <input type="checkbox"/>															
Thermoforming <input type="checkbox"/>	Finishing <input type="checkbox"/>	Rec/Store/Packaging <input type="checkbox"/>	Other <input type="checkbox"/>															
Large Fab <input type="checkbox"/>	Composite <input type="checkbox"/>	Supplier <input type="checkbox"/>																

Root Cause	Date	Step	Qty	Description of work order update or non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector
Design									
Doc/Data									
Equip/Tooling									
Handling/Pre									
Material									
Operator									
Offset/Setup									
Process									
Supplier									
Training									
Transport									
Unapproved									

FAULT CATEGORY

Landing Gear <input type="checkbox"/> Bending <input type="checkbox"/> Centre Not Concentric <input type="checkbox"/> Cracks <input type="checkbox"/> Crimp/Kink/Ripple/Wave <input type="checkbox"/> Cuffs <input type="checkbox"/> Crushing <input type="checkbox"/> Heat Treat <input type="checkbox"/> Inspection Strip in Tube <input type="checkbox"/> Marks/Chatter <input type="checkbox"/> Turning Sequence <input type="checkbox"/> Wave/Twist in Tube	General <input type="checkbox"/> Bend <input type="checkbox"/> BOM/Route <input type="checkbox"/> Broken/Damage/Defect <input type="checkbox"/> Burrs <input type="checkbox"/> Contamination <input type="checkbox"/> Countersink <input type="checkbox"/> Cut Too Short <input type="checkbox"/> Drawing <input type="checkbox"/> Drill Holes <input type="checkbox"/> Finish <input type="checkbox"/> Fit/Function	<input type="checkbox"/> Folio/Program <input type="checkbox"/> Grain <input type="checkbox"/> Hardware <input type="checkbox"/> Inspection Incomplete/Unqualified <input type="checkbox"/> Instructions Incomplete/Unclear <input type="checkbox"/> Misaligned/off center <input type="checkbox"/> Mislabeled <input type="checkbox"/> Misread <input type="checkbox"/> Off-set <input type="checkbox"/> Out of Calibration <input type="checkbox"/> Out of Sequence	<input type="checkbox"/> Outside Dimensions <input type="checkbox"/> Over/Under tolerance <input type="checkbox"/> Part Incorrect <input type="checkbox"/> Part Lost/Missing <input type="checkbox"/> Part Moved <input type="checkbox"/> Positioned Wrong <input type="checkbox"/> Power Loss/Surge <input type="checkbox"/> Pressure/Forced <input type="checkbox"/> Set-up <input type="checkbox"/> Temperature/Cure <input type="checkbox"/> Weld <input type="checkbox"/> Wrong Stock Pulled <input type="checkbox"/> Other
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Work Order ID 110289

December-17-13 9:20:13 AM

110289

Page 2

Item ID: D044-713-014

Accept

N900040100

Setup Start *NS1*

Revision ID:

Stop *NS2*

Item Name: Bubble Window RHvne 100 Kias

Start Date: 12/17/13 Start Qty: 1.00 *1*

Cust Item ID:

Required Date: 12/17/13 Req'd Qty: 1.00 *1*

Customer:

Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____

Run Start *NR1*

QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Stop *NR2*

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
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120 QC4- 100% Inspect kits for completeness

0.00 DAS

120

QC Memo

0.00 6 3-89

Quality Control

130

0.00

130

Packaging Memo

0.00

Packaging

Identify and pack for shipping as per PPP D044-713-014

Location: P6091

PPP Rev: _____

140

QC21- Final Inspection - Work Order Release

0.00

140

QC Memo

0.00

Quality Control

DAS

6

9-89

14-1-31

MLJ 14-02-04

14-01-31

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

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Doc/Data									
Equip/Tooling									
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Landing Gear <input type="checkbox"/> Bending <input type="checkbox"/> Centre Not Concentric <input type="checkbox"/> Cracks <input type="checkbox"/> Crimp/Kink/Ripple/Wave <input type="checkbox"/> Cuffs <input type="checkbox"/> Crushing <input type="checkbox"/> Heat Treat <input type="checkbox"/> Inspection Strip in Tube <input type="checkbox"/> Marks/Chatter <input type="checkbox"/> Turning Sequence <input type="checkbox"/> Wave/Twist in Tube	General <input type="checkbox"/> Bend <input type="checkbox"/> BOM/Route <input type="checkbox"/> Broken/Damage/Defect <input type="checkbox"/> Burrs <input type="checkbox"/> Contamination <input type="checkbox"/> Countersink <input type="checkbox"/> Cut Too Short <input type="checkbox"/> Drawing <input type="checkbox"/> Drill Holes <input type="checkbox"/> Finish <input type="checkbox"/> Fit/Function	<input type="checkbox"/> Folio/Program <input type="checkbox"/> Grain <input type="checkbox"/> Hardware <input type="checkbox"/> Inspection Incomplete/Unqualified <input type="checkbox"/> Instructions Incomplete/Unclear <input type="checkbox"/> Misaligned/off center <input type="checkbox"/> Mislabeled <input type="checkbox"/> Misread <input type="checkbox"/> Off-set <input type="checkbox"/> Out of Calibration <input type="checkbox"/> Out of Sequence	<input type="checkbox"/> Outside Dimensions <input type="checkbox"/> Over/Under tolerance <input type="checkbox"/> Part Incorrect <input type="checkbox"/> Part Lost/Missing <input type="checkbox"/> Part Moved <input type="checkbox"/> Positioned Wrong <input type="checkbox"/> Power Loss/Surge <input type="checkbox"/> Pressure/Forced <input type="checkbox"/> Set-up <input type="checkbox"/> Temperature/Cure <input type="checkbox"/> Weld <input type="checkbox"/> Wrong Stock Pulled <input type="checkbox"/> Other
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Picklist Print

December-17-13 9:20:12 AM

Page 1

Work Order ID: 110289

Parent Item: D044-713-014

Parent Item Name: Bubble Window RHvne 100 Kias

Start Date: 12/17/13

Required Date: 12/17/13

Start Qty: 1.00

Required Qty: 1.00

Comments: IPP Rev:A05.03.22New issueKJ/JLM
IPP Rev:A06-07-03As per DSI 9329 JLM
IPP Rev:C 08-07-30 chg qty DD verified by:EC

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
DT8720 template	DAS 6 9-89	Manufactured	No			110	Each	0.0000	1	1			
D2126 Seal	1.21 90.30"	Manufactured	No			110	f	183.4190	7.525	8			
											DAS 33 9-89		
				<u>Location</u>		<u>Loc Qty</u>	<u>Loc Code</u>						
				ST405		183.419							
				102729		143.105							
				89058		40.314							
D3269-2 Bubble Window RH	DAS 6 9-89	Manufactured	No			110	Each	1.0000	1	1			
				<u>Location</u>		<u>Loc Qty</u>	<u>Loc Code</u>				DAS 33 9-89		
				st196a		1							
				96547		1							
D3312-1 Placard	DAS 6 9-89	Manufactured	No			110	Each	3.0000	1	1			
				<u>Location</u>		<u>Loc Qty</u>	<u>Loc Code</u>				DAS 33 9-89		
				ST037		3							
				82809		3							

DAS
31
9-89

DAS
31
9-89

DAS
31
9-89

2

14-01-29

102729

96547

82809

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

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FAULT CATEGORY

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DESIGN <i>UP</i>	DRAWN BY <i>LE</i>	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
CHECKED <i>UP</i>	APPROVED <i>[Signature]</i>	DRAWING NO. DSI 9329	REV. B SHEET 1 OF 1
DATE 06.06.26		TITLE BUBBLE WINDOW INSTALL MOD.	SCALE NTS
A	06.04.25	NEW ISSUE	
B	06.06.26	CHG TO EFFECTIVE AFTER CHG 002	

DART SERVICE INSTRUCTION
TO AMEND INSTALLATION INSTRUCTIONS IIN-D044-713 REV. A
REF. CANADIAN STC: SH05-13 ISSUE 1
REF. FAA STC: SR02088NY

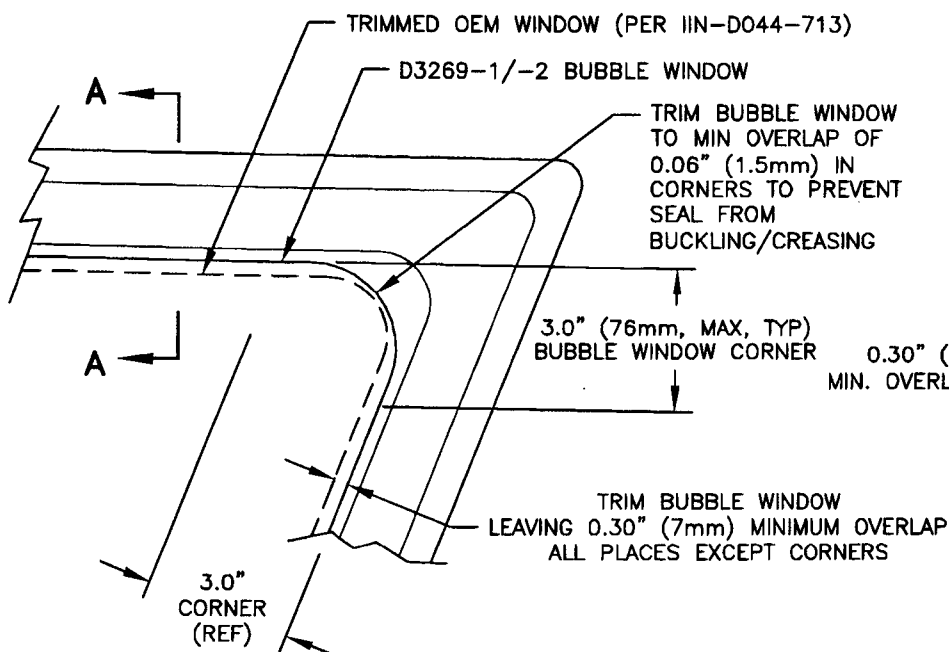
PURPOSE: For the D044-713-013/-014 kits supplied after CHG 002, the D3267-1/-2 bubble windows have been supplied untrimmed to allow for easier installation in the field. The installer must trim the windows in accordance with these instructions prior to installation.

PROCEDURE:

- 1) Modify the R44 crew door per items 3.2.1 and 3.2.2 of Installation Instructions IIN-D044-713 Rev.A.
- 2) Fit and trim the D3269-1/-2 Bubble Window to match the cutout in the door as follows: The bubble window must be a minimum of 0.30" (7mm) larger than the cutout in the OEM window as shown in the figure below. However, in the corners of the window, it is acceptable to trim a 0.06" minimum overlap (1.5mm) to help prevent the D2126-0903 Seal from buckling/creasing in the corners. The edge of the bubble window must be deburred to a smooth finish.
- 3) Continue installing the bubble window per items 3.2.3 through 3.2.5 of the installation instructions.

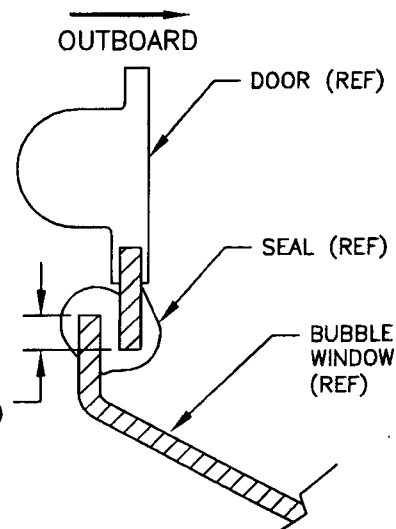
FIGURE 1

LOOKING AT INSIDE CORNER OF DOOR



SECTION A-A

(NOT TO SCALE)



CANADA
DEPARTMENT OF TRANSPORT
AIRCRAFT CERTIFICATION
BRANCH
DAO # 01-O-01

APPROVED

BY: *[Signature]*
D. SHEPHERD (DE # 02)

DATE: 06.06.26
CERT. NO.: SH05-13
ISSUE NO.: 1

110289MCS
13-12-18

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DAS
6
9-89

REFERENCE ONLY

14-1-30

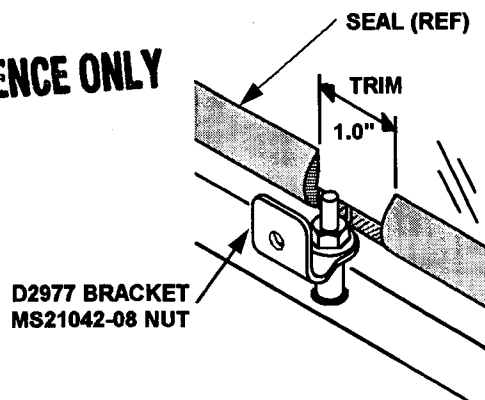


FIGURE 4 – D044-713-015 Passenger Door Window Kit – Tab Installation

4.0 WEIGHT AND BALANCE

The following are the net weight increase associated with the modification kits.

Installation	Weight	LATERAL		LONGITUDINAL	
		Arm	Moment	Arm	Moment
D044-713-011 Crew Door Window Kit	1.5 lb 0.68 kg	±24 in ±0.61 m	±36 in-lb ±0.43 m-kg	66 in 1.68 m	99 in-lb 1.1 m-kg
D044-713-013 Bubble Window Kit, LH	2.5 lb 1.1 kg	-28 in -0.71 m	-70 in-lb -0.78 m-kg	66 in 1.68 m	165 in-lb 1.8 m-kg
D044-713-014 Bubble Window Kit, RH	2.5 lb 1.1 kg	+28 in +0.71 m	+70 in-lb +0.78 m-kg	66 in 1.68 m	165 in-lb 1.8 m-kg
D044-713-015 Passenger Door Window Kit	1.2 lb 0.54 kg	±23 in ±0.58 m	±28 in-lb ±0.31 m-kg	83 in 2.11 m	100 in-lb 1.1 m-kg

5.0 PARTS LIST

Qty -011	Qty -013	Qty -014	Qty -015	Part Number	Description
X				D044-713-011	CREW DOOR WINDOW KIT, (FITS LH & RH)
	X			D044-713-013	BUBBLE WINDOW KIT, LH
		X		D044-713-014	BUBBLE WINDOW KIT, RH
			X	D044-713-015	PASSENGER DOOR WINDOW KIT, (FITS LH & RH)
			1	D2126-0720	SEAL
1	1	1		D2126-0903	SEAL
	1			D3269-1	BUBBLE WINDOW, LH
		1		D3269-2	BUBBLE WINDOW, RH
1				D3277-1	WINDOW
			1	D3279-1	WINDOW
	1	1		D3312-1	PLACARD
			1	D2977	BRACKET
			1	MS21042-08	NUT
*1	*1			DT8720	D044-713-011/-013/-014 CUTTING TEMPLATE (FWD DOOR)
			*1	DT8721	D044-713-015 CUTTING TEMPLATE (AFT DOOR)

* Not to be installed. Cutting template only.

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Revision: A
Date: 05.01.10